PRONTO RENEWABLES ENERGY PVT LTD

PRONTO SOLAR INVERTER AGNI SERIES - SPECIFICATIONS

	INVERTER RATING (KVA)		**7.5KVA**
	BATTERY VOLTAGE		**96**
A	**SOLAR CHARGE CONTROLLER**		
1	Charger Type & Topology		MPPT
2	PV Total Nominal Capacity (KVA)		7.5KW
3	Per Channel PV Capacity (w)(Nominal Peak)		7.5KW
4	Max. Battery Charging Amps From PV (Amps)		20
5	Battery type Supported		LEAD ACID / VRLA / LMLA / LiFePo4
6	Min. Battery AH (Suggested)		100
7	Peak charging Efficiency MPPT (%)		>92%
	MPPT Charger Controller		
1	No. Of MPPT Channels		1
2	Max.Open Circuit PV Volts (Voc) MPPT		200
3	MPPT Voltage Range (Volts)		135-200
4	Max.O/P Amps per channel (MPPT Amps)		80
B	**BATTERY HIGH/LOW CUT VOLTAGE**		
1	Lithium (LFP) Low Batt. Alarm	PROFILE-1	91.2
2	Lithium (LFP) Low Batt. Cut		89.6
3	Lithium (LFP) High Batt./full Charge Cut		110.4
4	Lithium (LFP) Low Batt. Alarm	PROFILE-2	91.2
5	Lithium (LFP) Low Batt. Cut		89.6
6	Lithium (LFP) High Batt./full Charge Cut		112
7	Lithium (LFP) Low Batt. Alarm	PROFILE-3	91.2
8	Lithium (LFP) Low Batt. Cut		89.6
9	Lithium (LFP) High Batt./full Charge Cut		113.6
10	Lithium (LFP) Low Batt. Alarm	PROFILE-4	91.2
11	Lithium (LFP) Low Batt. Cut		89.6
12	Lithium (LFP) High Batt./full Charge Cut		115.2
13	Tubular Low Batt. Alarm	TUBULAR	86.4
14	Tubular Low Batt. Cut		84
15	Tubular High Batt./full Charge Cut		115.2
16	SMF Low Batt. Alarm	SMF/VRLA	86.4
17	SMF Low Batt. Cut		84
18	SMF High Batt./full Charge Cut		112
C	**INVERTER/ SOLAR PCU**		
1	No. of Phases/Connection Type		1Phase/2wires
2	Nominal Output Voltage/Frequency (Volts/Hz)		220/50hz
3	Nominal VA Capacity (VA)		7500
4	INVERTER LOAD Capacity (W) (BULB LOAD)		6KW
5	Battery Discharging Current (A)		62.5
6	Voltage Regulation (At No Load)		±2%
7	Freq Regulation (At No Load)		±0.5 Hz
8	THD		>4%
9	Load Power Factor		0.8 lag to unity
10	Over Loads :		100-105% - 60 sec
11			105-110% - 30 sec
12			110-120% - 2 sec
C	**GRID CHARGER**		
1	Grid Voltage Range (Voltage Sync. Range)		90V-280V (PHASE TO NEUTRAL)
2	Grid Frequency Range (Freq.Sync.Range)		50 Hz ±5%
3	Max Battery Amps During Grid Charging (Amps)		20A
D	**USER INTERFACE**		
1	**DISPLAY INTERFACE**		LCD NUMERICAL DISPLAY
2	**DISPLAYED PARAMETERS**		
1	Battery Parameters		Voltage , Battery Charging Current
2	PV Parameters		PV Voltage, PV Current, PV Power
3	Grid Parameters		Grid Voltage, Grid freq.
4	Load Parameters		Load %
5	Data Logging		OPTIONAL
6	System Level		Fault & Warning
3	**INDICATION/PROTECTIONS**		

1	PV Side Protections *		PV Reverse Polarity, PV High Current, PV High Volt
2	Battery Side Protections		Battery Reverse Polarity, Lithium BMS Off Protection, No Battery Protection
3	Grid Side		Over/Under Voltage, Over/Under Freq.,Surge Protection, Reverse Feed Protection
4	Load Side		Over Load, Short Circuit
5	System Protection		Over Temprature Trip, Input Short Circuit , Output Input
6	LED Indication		OPTIONAL
7	User Keypad for Settings Change		ON/OFF, UP, DOWN, SETTING
8	Breakers at all input		MCB / FUSE / TCB
9	Remote Monitoring Optional		DATA MONITORING THROUGH WIFI & GPRS
MISCELLANEOUS			
1	Degree Of Protection		IP 31
2	Cooling method		Temp. Controlled FAN Force Cooling
3	Operating Temperature		0-50 Degree Ambient Operation
4	Humidity (Non Condensing)		Max. 90% Non Condensing
5	Altitude (above sea level)		1000m Above Sea Level
6	Housing		Sheet Metal, floor Standing / Wall Hanging
7	Dimensions in mm (H x W x H)		500X400X560MM
8	Approx Weight (kg)		70KG
USP			
1	Zero Volt Pickup	8	Load according to Models Rating
2	Ready For Lithium	9	5KVA & above TDR mode for motorise load
3	Four Charging Profile for Lithium	10	Battery Equalisation mode for Lead Acid Battery
4	Mains Reverse Feed Protected	11	3 Selectable Solar mode
5	Low consumption (electrolytic / acid) Technology	12	PV Solar Charging for battery max 50A
6	Designed For Heavy Load according to Models Rating	13	Grid Energise
7	Power Saving Technology (Inverter Cost is recovered in 3-4 Years) Optional	14	Solar Energise
Note:			
*** Related to Only solar Models**			
**** Depends on Models**			
The specifications & Design are subject to change due to continuous improvements.			